Ag. Waste Application and Excavated Ponds McPherson County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
3A: Bowdle	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
3B: Bowdle	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
5A: Bowbells	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
5B: Bowbells	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
6: Arnegard	85	Not limited		Very limited Deep to water	1.00
7: Bearden	85	Somewhat limited Depth to saturated zone Sodium content	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.43 0.10 0.07
8: Rentill	85	Somewhat limited Droughty	0.08	Very limited Deep to water	1.00
9A: Bearpaw	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
9B: Bearpaw	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
9C: Bearpaw	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
10: Brantford	85	Very limited Filtering capacity Droughty	1.00	Very limited Deep to water	1.00
11A: Bearpaw	50	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Greenway	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
11B: Bearpaw	45	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Greenway	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Vida	4	Not Rated Not Rated Restricted permeability Low adsorption Cobble content	1.00	Very limited Deep to water	1.00
13E: Zahl	50	Somewhat limited Slope Restricted permeability	0.63	Very limited Deep to water	1.00
Kloten	25	Very limited Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds		
		Rating class and limiting features	Value	Rating class and limiting features	Value	
14D: Vida	85	Not Rated Not Rated Restricted permeability Low adsorption Cobble content Slope	1.00 1.00 1.00 0.04	Very limited Deep to water	1.00	
15A: Williams	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
Bowbells	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
15B: Williams	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
Bowbells	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
15C: Williams	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
Bowbells	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
16A: Williams	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
Bowbells	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Tonka	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30
16B: Williams	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tonka	15	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30
16C: Williams	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Bowbells	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Parnell	15	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.95

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds		
		Rating class and limiting features	Value	Rating class and limiting features	Value	
17B: Vida	45	Not Rated Not Rated Restricted permeability Low adsorption Cobble content	1.00	Very limited Deep to water	1.00	
Williams	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
17C: Vida	40	Not Rated Not Rated Restricted permeability Low adsorption Cobble content Slope	1.00 1.00 1.00 0.37	Very limited Deep to water	1.00	
Williams	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
Bowbells	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
17D: Vida	55	Not Rated Not Rated Restricted permeability Low adsorption Cobble content Slope	1.00 1.00 1.00 0.37	Very limited Deep to water	1.00	
Zahl	25	Somewhat limited Slope Restricted permeability	0.37	Very limited Deep to water	1.00	
17E: Vida	45	Not Rated Not Rated Slope Restricted permeability Low adsorption Cobble content	1.00 1.00 1.00	Very limited Deep to water	1.00	

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Zahill	35	Very limited Slope Restricted permeability	1.00	Very limited Deep to water	1.00
18A: Williams	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Niobell	30	Very limited Restricted	1.00	Somewhat limited Slow refill	0.95
		permeability Sodium content	0.82	Deep to water Cutbanks cave Salty water	0.90 0.10 0.01
20A: Lehr	90	Very limited Filtering capacity Droughty	1.00	Very limited Deep to water	1.00
20B: Lehr	85	Very limited Filtering capacity Droughty	1.00	Very limited Deep to water	1.00
21A: Cavour	50	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10
Miranda	35	Very limited Restricted	1.00	Very limited Slow refill	1.00
		permeability Sodium content Salinity Runoff limitation	1.00 0.50 0.40	Deep to water Salty water Cutbanks cave	0.90 0.50 0.10
22A: Niobell	45	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.95
		Sodium content	0.82	Deep to water Cutbanks cave Salty water	0.90 0.10 0.01

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food-	Application of manure and food- processing waste		S
		Rating class and limiting features	Value	Rating class and limiting features	Value
Miranda	30	Very limited Restricted permeability Sodium content	1.00	Very limited Slow refill Deep to water	1.00
		Salinity Runoff limitation	0.50	Salty water Cutbanks cave	0.50
23A: Noonan Variant	85	Very limited Restricted permeability Filtering capacity Sodium content Runoff limitation Salinity	1.00 1.00 0.82 0.40 0.01	Very limited Deep to water	1.00
24A: Niobell	45	Very limited Restricted permeability Sodium content	1.00	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01
Noonan	35	Very limited Restricted permeability Sodium content Runoff limitation	1.00 0.82 0.40	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
25: Miranda	55	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Slow refill Deep to water Salty water Cutbanks cave	1.00 0.90 0.50 0.10
Heil	30	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds		
		Rating class and limiting features	Value	Rating class and limiting features	Value	
26: Cresbard	50	Somewhat limited Restricted permeability Sodium content	0.89	Somewhat limited Slow refill Deep to water Cutbanks cave Salty water	0.95 0.90 0.10 0.01	
Cavour	35	Very limited Restricted permeability Salinity Runoff limitation Sodium content	1.00 0.50 0.40 0.18	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.78 0.10	
27B: Lehr	55	Very limited Filtering capacity Droughty	1.00	Very limited Deep to water	1.00	
Bowdle	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00	
29: Exline	55	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity Runoff limitation	1.00 1.00 0.84 0.50 0.40	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 0.95 0.50 0.07	
Harmony	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
30: Letcher	40	Very limited Restricted permeability Runoff limitation Sodium content Salinity	1.00 0.40 0.02 0.01	Somewhat limited Deep to water Slow refill Cutbanks cave Salty water	0.99 0.95 0.10 0.01	
Parshall	35	Not limited		Very limited Deep to water	1.00	

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	map processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
31: Harmony	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
32: Harmony	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Exline	30	Very limited Restricted permeability Sodium content Depth to saturated zone Salinity	1.00 1.00 0.84 0.50	Very limited Cutbanks cave Slow refill Salty water Deep to water	1.00 0.95 0.50
37: Straw	85	Runoff limitation Very limited Flooding	1.00	Very limited Deep to water	1.00
38: Regan	85	Very limited Depth to saturated zone Flooding	1.00	Somewhat limited Slow refill Cutbanks cave	0.43
40A: Mondamin	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
40B: Mondamin	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
43C: Wabek	50	Very limited Filtering capacity Droughty Leaching limitation Slope	1.00 1.00 0.45 0.37	Very limited Deep to water	1.00
Bowdle	40	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food-processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
44D: Wabek	85	Very limited Filtering capacity Droughty Slope Leaching limitation	1.00 1.00 0.84 0.45	Very limited Deep to water	1.00
45B: Wabek	50	Very limited Filtering capacity Droughty Leaching limitation	1.00	Very limited Deep to water	1.00
Lehr	30	Very limited Filtering capacity Droughty	1.00	Very limited Deep to water	1.00
52B: Lihen	50	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.01	Very limited Deep to water	1.00
Parshall	30	Not limited		Very limited Deep to water	1.00
52D: Lihen	85	Very limited Filtering capacity Slope Leaching limitation Droughty	1.00 0.84 0.45 0.01	Very limited Deep to water	1.00
54B: Tansem	55	Not limited		Very limited Deep to water	1.00
Roseglen	30	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
55A: Parshall	45	Not limited		Very limited Deep to water	1.00
Tally	35	Not limited		Very limited Deep to water	1.00
55B: Tally	85	Not limited		Very limited Deep to water	1.00
56D: Tansem Variant	85	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
57A: Bryant	55	Not limited		Very limited Deep to water	1.00
Grassna	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
57B: Bryant	55	Not limited		Very limited Deep to water	1.00
Grassna	25	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
57C: Bryant	85	Not limited		Very limited Deep to water	1.00
58B: Temvik	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Grassna	30	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10
Bearpaw	25	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food- processing waste		Aquifer-fed excavated ponds		
		Rating class and limiting features	Value	Rating class and limiting features	Value	
62: Hamerly	85	Somewhat limited Depth to saturated zone Restricted permeability	0.84	Somewhat limited Slow refill Cutbanks cave Deep to water	0.30	
64: Grassna	85	Not limited		Somewhat limited Deep to water Slow refill Cutbanks cave	0.90 0.30 0.10	
65: Grail	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00	
72: Ranslo	45	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01	
Harriet	40	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10	
75: Tonka	50	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30	

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Nishon	35	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30
76: Parnell	90	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.95
77: Nishon	50	Very limited Restricted permeability Depth to saturated zone Ponding Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.30
Heil	40	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10
80: Heil	95	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food processing was		Aquifer-fed excavated ponds		
		Rating class and limiting features	Value	Rating class and limiting features	Value	
82: Stirum	85	Very limited Depth to saturated zone Sodium content Ponding Filtering capacity Leaching limitation	1.00 1.00 1.00 1.00	Very limited Cutbanks cave Salty water	1.00	
85: Ranslo	90	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 1.00 0.60 0.40	Somewhat limited Slow refill Cutbanks cave Salty water Deep to water	0.95 0.10 0.01 0.01	
86: Harriet	90	Very limited Restricted permeability Depth to saturated zone Sodium content Flooding Salinity	1.00 1.00 1.00 0.60 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10	
87: Marysland	90	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00	Very limited Cutbanks cave	1.00	
88: Divide	85	Very limited Filtering capacity Depth to saturated zone	1.00	Very limited Cutbanks cave Deep to water	1.00	
97: Regan	90	Very limited Depth to saturated zone Flooding	1.00	Somewhat limited Slow refill Cutbanks cave	0.43	

Ag. Waste Application and Excavated Ponds -- continued McPherson County, South Dakota

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
98: Vallers	85	Very limited Depth to saturated zone Restricted permeability	1.00	Somewhat limited Slow refill Cutbanks cave	0.95
99: Orthents, Gravelly	99	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.71 0.45	Very limited Deep to water	1.00
100: Parnell	90	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave	0.95
w: Water (less Than 40 Acres)	100	Not rated		Not rated	